

Figure 1. Coding sequence for the *cbhl* gene. Small case letters represent the signal sequence, large case letters the catalytic domain, bolded italics the linker region, and large case underlined the cellulose-binding domain.

5 atgtatcggaagtggccgtcatctcgcccttcttggccacagctcgtgctCAGTCGGCCTGCACTCTCCAATCGGA  
 GACTCACCCGCCTCTGACATGGCAGAAATGCTCGTCTGGTGGCACGTGCACTCAACA  
 10 GACAGGCTCCGTGGTCATCGACGCCAACTGGCGCTGGACTCACGCTACGAACAGCAG  
 CACGAACTGCTACGATGGCAACACTTGGAGCTCGACCCTATGTCCTGACAACGAGAC  
 CTGCGCGAAGAAGTGTCTGTGGACGGTGCCGCTACGCGTCCACGTACGGAGTTAC  
 CACGAGCGGTAACAGCCTCTCCATTGGCTTTGTACCCAGTCTGCGCAGAAGAACGT  
 TGGCGCTCGCCTTTACCTTATGGCGAGCGACACGACCTACCAGGAATTCACCCTGCTT  
 GGCAACGAGTTCTCTTTTCGATGTTGATGTTTCGCAGCTGCCGTGCCGCTTGAACGGA  
 15 GCTCTCTACTTCGTGTCCATGGACGCGGATGGTGGCGTGAGCAAGTATCCCAACCAAC  
 ACCGCTGGCGCCAAGTACGGCACGGGGTACTGTGACAGCCAGTGTCCCCGCGATCTG  
 AAGTTCATCAATGGCCAGGCCAACGTTGAGGGCTGGGAGCCGTCATCCAACAACGC  
 GAACACGGGCATTGGAGGACACGGAAGCTGCTGCTCTGAGATGGATATCTGGGAGG  
 CCAACTCCATCTCCGAGGCTCTTACCCCCACCCCTGCACGACTGTCGGCCAGGAGA  
 20 TCTGCGAGGGTGATGGGTGCGGCGGAACCTTACTCCGATAACAGATATGGCGGCACTT  
 GCGATCCCGATGGCTGCGACTGGAACCCATACCGCCTGGGCAACACCAGCTTCTACG  
 GCCCTGGCTCAAGCTTTACCCTCGATACCACCAAGAAATTGACCGTTGTCACCCAGTT  
 CGAGACGTCGGGTGCCATCAACCGATACTATGTCCAGAATGGCGTCACTTTCCAGCA  
 GCCCAACGCCGAGCTTGGTAGTTACTCTGGCAACGAGCTCAACGATGATTACTGCAC  
 25 AGCTGAGGAGGCAGAATTCGGCGGATCCTCTTTCTCAGACAAGGGCGGCCTGACTCA  
 GTTCAAGAAGGCTACCTCTGGCGGCATGGTTCTGGTCATGAGTCTGTGGGATGATTA  
 CTACGCCAACATGCTGTGGCTGGACTCCACCTACCCGACAAACGAGACCTCCTCCAC  
 ACCCGGTGCCGTGCGCGGAAGCTGCTCCACCAGCTCCGGTGTCCCTGCTCAGGTCGA  
 ATCTCAGTCTCCCAACGCCAAGGTCACCTTCTCCAACATCAAGTTCGGACCCATTGGC  
 30 AGCACCGGCAACCCTAGCGGCGGCAACCTTCCCGGCGGAAACCCGCCTGGCACCACC  
 ACCACCCGCCGCCAGCCACTACCACTGGAAGCTCTCCCGGACCTACCCAGTCTCACT  
 ACGGCCAGTGCGGCGGTATTGGCTACAGCGGCCCCACGGTCTGCGCCAGCGGCACA  
 ACTTGCCAGGTCCTGAACCCTTACTACTCTCAGTGCCTGTAAAGCTCC

Figure 2. SDS-PAGE western blot using anti-CBH I showing the reduction in molecular weight of rCBH I expression clones as a function of the introduction of N>A modifications.

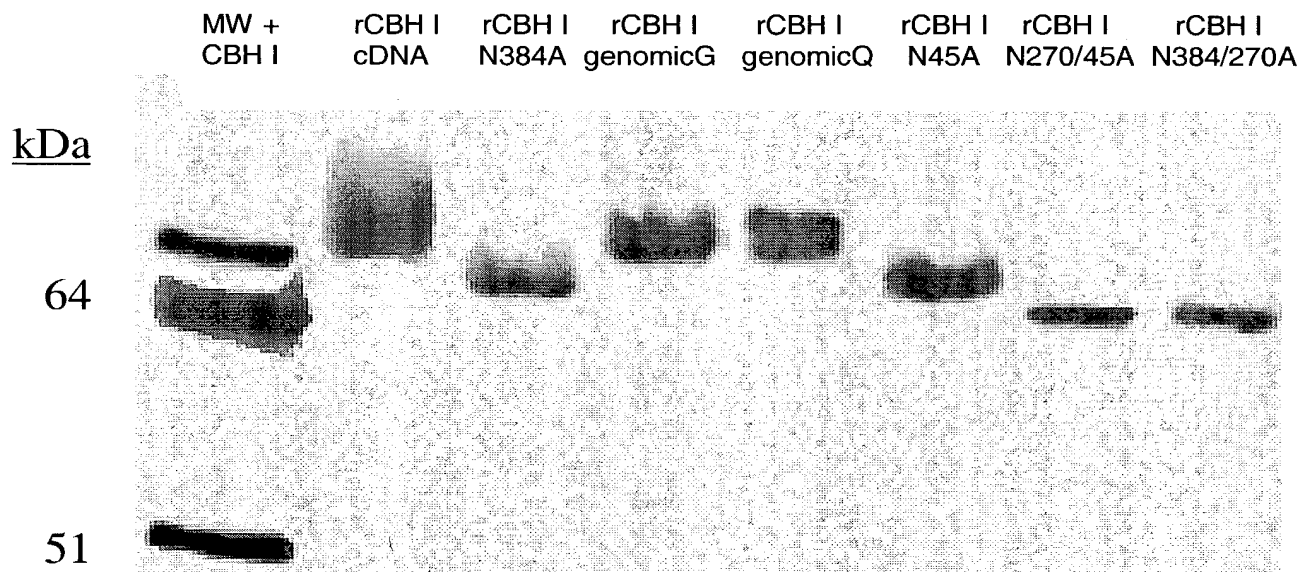


Figure 3. Plasmid map of fungal expression vector pPFE2/CBH1

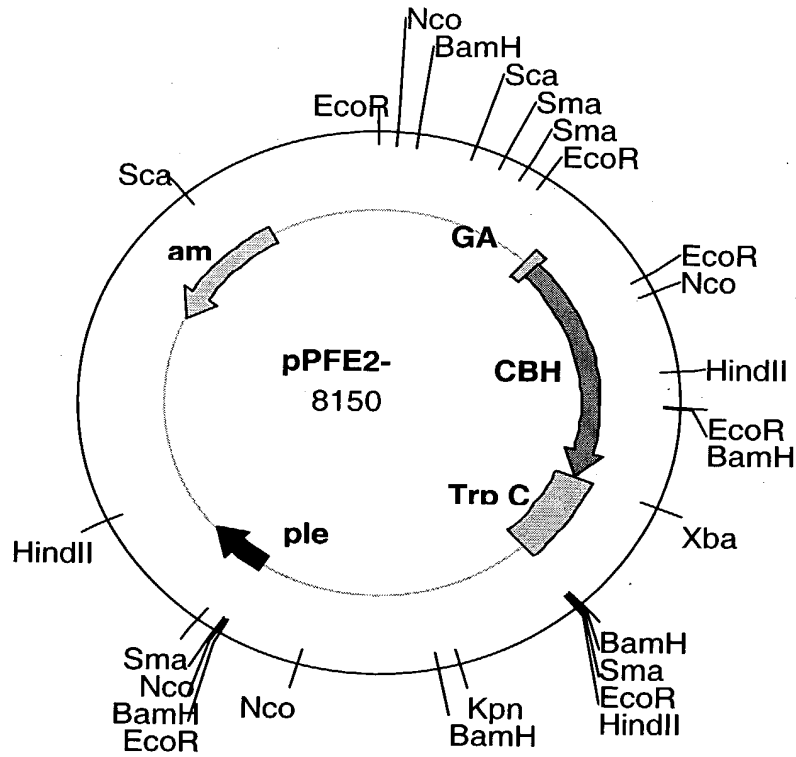


Figure 4. Coding sequence for the linker region showing additional proline that effect conformation of linker region in the protein structure.

